Type: FMB

Points: 12

«Row\_Num». «Company» claims that the average cell phone expense for a «Company» customer is $«mu» per month. «Name» feels that average monthly cell phone expenses are higher than $«mu» per month. conducts a random sample of «n» «Company» customers and finds that the average monthly cell expense was $«xbar» with a standard deviation of $«s».

Based on the above sample data, is there enough evidence to conclude that the cell phone expense is greater than $«mu»? Test the hypothesis at the «alpha»% level of significance.

**HYPOTHES**

What are the null and alternative hypotheses?

Enter the LETTER of the correct answer

A. H0: μ = $«mu»; HA: μ ≠ $«mu»

B. H0: μ = $«mu»; HA: μ < $«mu» (μ is less than $«mu»)

C. H0: μ = $«mu»; HA: μ > $«mu» (μ is more than $«mu»)

D. H0: μ = $«xbar»; HA: μ ≠ $«xbar»

E. H0: μ = $«xbar»; HA: μ > $«xbar» (μ is more than $«xbar»)

F. H0: μ = $«xbar»; HA: μ < $«xbar» (μ is less than $«xbar»)

ANSWER: [C, c]

**HYPOTHESIS TEST**

Critical Value (*3 decimal places*): []

Decision Rule: [Reject if T-test > «tcrit\_display»]

Test Statistic (*3 decimal places*): : [«ttest\_display»]

**DECISION AND CONCLUSION**

Decision: [«Decision»]

Conclusion. Enter the LETTER of the correct answer

A. Yes, there is enough evidence to conclude that the average cell phone bill is higher than «Company» claims.

B. No, there is not enough evidence to conclude the average conclude the average cell phone bill is higher than «Company» claims.

ANSWER: [«Conclusion»]